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JUN '02 2008

Serial No. 10/596,042
Docket No. MARKS 5322
Second Preliminary Amendment**AMENDMENTS TO THE CLAIMS:**

Please add new claims 60-87, as shown below.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claims 1-19 (cancelled)

Claim 20 (previously presented): A fitting for providing a substantially fluid tight seal between an opening in a chamber wall and a pipe assembly, said pipe assembly passing through said opening, said fitting comprising:

(i) a first portion comprising a radially extending first flange adapted to engage with the chamber wall around substantially the entire circumference of the first flange, the first portion further incorporating a tubular portion extending away from the flange, said flange being adapted to bond to glass reinforced plastic (GRP);

(ii) a second portion incorporating a second radially extending flange adapted to engage with the chamber wall around substantially the entire circumference of the second flange, said flange being adapted to bond to GRP;

(iii) a securing fixture adapted to secure the first portion to the second portion.

Claim 21 (previously presented): A fitting as claimed in claim 20, wherein the first portion further comprises a second tubular sleeve.

Claim 22 (previously presented): A fitting as claimed in claim 21, wherein the second tubular sleeve is adapted to form a tight sliding fit with the outside of said pipe assembly.

Claim 23 (previously presented): A fitting as claimed in claim 21, wherein the second tubular sleeve is formed from an electrofusible plastics material.

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Claim 24 (previously presented): A fitting as claimed in claim 23, wherein the inner surface of the second tubular sleeve incorporates heating windings.

Claim 25 (previously presented): A fitting as claimed in claim 21, wherein the second tubular sleeve and the first flange are formed from different materials with a substantially fluid-tight joint there between.

Claim 26 (previously presented): A fitting as claimed in claim 20, wherein the first flange is made of a metal.

Claim 27 (previously presented): A fitting as claimed in claim 20, wherein the first flange is made of stainless steel, coated steel, aluminum, coated aluminum, GRP or a plastics material that bonds satisfactorily to GRP.

Claim 28 (previously presented): A fitting as claimed in claim 20, wherein the first flange and the second flange are formed from substantially the same material.

Claim 29 (previously presented): A fitting as claimed in claim 20, wherein the securing fixture comprises complementary screw threaded regions on the first and second portions such that the two portions screw together, clamping the chamber wall(s) between the first and second flanges.

Claim 30 (previously presented): A fitting as claimed in claim 21, wherein the second tubular sleeve is formed from polyethylene and the flanges are formed from stainless steel, coated steel or a polymer resistant to fuel.

Claim 31 (previously presented): A fitting as claimed in claim 20, wherein the chamber is a double walled chamber.

Claim 32 (previously presented): A fitting as claimed in claim 20, wherein the chamber is a single walled chamber.

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Claim 33 (previously presented): A fitting as claimed in claim 31, wherein the chamber maintains an interstitial space between the walls.

Claim 34 (previously presented): A fitting as claimed in claim 33, wherein the integrity of the seal may be monitored via the interstitial gap of a secondarily contained wall, an aperture through the body of the second portion being provided for this purpose.

Claim 35 (previously presented): A fitting as claimed in claim 20, wherein the pipe assembly is a secondarily contained pipe assembly comprising a primary supply pipe contained within a secondary pipe.

Claim 36 (previously presented): A fitting as claimed in claim 20, wherein the pipe assembly is a primary supply pipe.

Claim 37 (previously presented): A fitting as claimed in claim 20, incorporated into an underground pipework system.

Claim 38 (previously presented): A fitting as claimed in claim 20, incorporated into a garage forecourt system.

Claim 39 (previously presented): A fitting for providing a substantially fluid tight seal between an opening in a chamber wall and a pipe assembly, said pipe assembly passing through said opening, said fitting comprising:

(i) a first portion adapted to accommodate one or more radially extending flanges, said flange(s) being adapted to engage with the chamber wall around substantially the entire circumference of the flange, said flange(s) being adapted to bond to glass reinforced plastic (GRP);

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(ii) a second portion or intermediate member formed from an electrofusible plastics material, joined at a first end in a substantially fluid type manner to the first portion and having a second end adapted to form a substantially fluid tight joint with said pipe assembly;

(iii) a third portion or intermediate member formed from an electrofusible plastics material, joined at a first end in a substantially fluid type manner to the first portion and having a second end adapted to form a substantially fluid tight joint with said pipe assembly;
wherein at least one of said flange(s) is adapted to be secured to the first portion by a securing fixture.

Claim 40 (previously presented): A fitting as claimed in claim 39, wherein said first portion accommodates two flanges.

Claim 41 (previously presented): A fitting as claimed in claim 39, wherein two flanges are used which clamp, in use, on either side of the chamber wall.

Claim 42 (previously presented): A fitting as claimed in claim 41, wherein one of the flanges can be an integral part of the second portion and the second flange, if present, is secured to the second portion by a securing fixture.

Claim 43 (previously presented): A fitting as claimed in claim 39, wherein said securing fixture comprises complementary screw threaded regions.

Claim 44 (previously presented): A fitting as claimed in claim 39, wherein said securing fixture comprises a bayonet fixing.

Claim 45 (previously presented): A fitting as claimed in claim 39, wherein said securing fixture comprises of complementary screw threaded regions on an outer surface of the first portion and an internal diameter of said flange(s).

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Claim 46 (previously presented): A fitting as claimed in claim 39, wherein the chamber is a double walled chamber.

Claim 47 (previously presented): A fitting as claimed in claim 20, wherein the chamber is a single walled chamber.

Claim 48 (previously presented): A fitting as claimed in claim 46, wherein the chamber maintains an interstitial space between the walls.

Claim 49 (previously presented): A fitting as claimed in claim 39, wherein heating windings are incorporated in the inner surface of the second and third portions.

Claim 50 (previously presented): A fitting as claimed in claim 49, wherein the second and third portions are adapted to electrofuse to the pipe assembly passing through the fitting in use to form a fluid-tight seal between the fitting and the pipe assembly.

Claim 51 (previously presented): A fitting as claimed in claim 39, wherein the first portion is formed from a different material from the second and third portions.

Claim 52 (previously presented): A fitting as claimed in claim 39, wherein if there is more than one flange they are formed from substantially the same material.

Claim 53 (previously presented): A fitting as claimed in claim 39, wherein the integrity of the seal may be tested by monitoring the space formed between the inner surface of the second portion and the outer surface of the secondary pipe.

Claim 54 (previously presented): A fitting as claimed in claim 48, wherein the integrity of the seal may be monitored via the interstitial gap of a secondarily contained wall, an aperture through the body of the second portion being provided for this purpose.

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Claim 55 (previously presented): A fitting as claimed in claim 48, wherein the integrity of the seal is monitored by connecting the space formed between the inner surface of the second portion and the outer surface of the secondary pipe and the interstitial gap via a passage.

Claim 56 (previously presented): A fitting as claimed in claim 39, wherein the space formed between the inner surface of the second portion and the outer surface of the secondary pipe is monitored via a test point valve.

Claim 57 (previously presented): A fitting as claimed in claim 39, wherein the pipe assembly is a secondarily contained pipe assembly comprising a primary supply pipe contained within a secondary pipe.

Claim 58 (previously presented): A fitting as claimed in claim 39, wherein the pipe assembly is a primary supply pipe.

Claim 59 (previously presented): A fitting as claimed in claim 39, wherein the pipe assembly is incorporated into a garage forecourt system.

Claim 60 (new): A fitting for providing a substantially fluid tight seal between an opening in a chamber wall and a pipe assembly, said fitting comprising:

- (i) a first portion comprising a radially extending first flange, a first surface of said first flange being configured to contact the chamber wall around substantially the entire circumference of the first flange, said first flange being adapted to bond to GRP, the first portion further comprising a tubular portion extending away from the flange, and a tubular sleeve formed from an electyrofusible plastics material, said tubular sleeve being joined in a substantially fluid tight seal to the tubular portion and adapted to couple the fitting to the fitting to the pipe assembly;

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- (ii) a second portion comprising a radially extending second flange, a first surface of said second flange being configured to contact the chamber wall around substantially the entire circumference of the second flange, said second flange being adapted to bond to GRP; and
- (iii) a coupling device adapted to secure the first portion to the second portion.

Claim 61 (new): A fitting as claimed in claim 60, wherein the first portion is adapted to extend through the opening in the chamber wall.

Claim 62 (new): A fitting as claimed in claim 60, wherein the tubular portion and tubular sleeve of the first portion overlap for a proportion of their length, the fluid tight seal between the tubular portion and tubular sleeve being formed in that overlapping region.

Claim 63 (new): A fitting as claimed in claim 60, wherein the fitting further comprises a sealing device located between the tubular portion and the tubular sleeve, said sealing device being adapted to form a fluid tight seal between the tubular portion and the tubular sleeve.

Claim 64 (new): A fitting as claimed in claim 63, wherein the sealing device comprises an O-ring sealed in a circumferential channel around either the tubular portion or the tubular sleeve.

Claim 65 (new): A fitting as claimed in claim 62, wherein the fitting further comprises an inner tubular portion, formed from a metal, and adapted to fit tightly inside the fitting in the region in which the tubular portion and tubular sleeve overlap.

Claim 66 (new): A fitting as claimed in claim 63, wherein the fitting further comprises an inner tubular portion, formed from a metal, and adapted to fit tightly inside the fitting in the region in which the tubular portion and tubular sleeve overlap.

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Claim 67 (new): A fitting as claimed in claim 64, wherein the fitting further comprises an inner tubular portion, formed from a metal, and adapted to fit tightly inside the fitting in the region in which the tubular portion and tubular sleeve overlap.

Claim 68 (new): A fitting as claimed in claim 60, wherein the first flange is an integral part of the first portion.

Claim 69 (new): A fitting as claimed in claim 60, wherein the first flange is adapted to be secured to the first portion by an adhesive.

Claim 70 (new): A fitting as claimed in claim 60, wherein the second portion further comprises a second tubular portion or collar extending away from the second flange.

Claim 71 (new): A fitting as claimed in claim 69, wherein the second flange is an integral part of the second portion.

Claim 72 (new): A fitting as claimed in claim 60, wherein the second flange is adapted to be secured to the second portion by a clamp or friction fit.

Claim 73 (new): A fitting as claimed in claim 60, wherein the inner surface of the tubular sleeve of the first portion incorporates heating windings.

Claim 74 (new): A fitting as claimed in claim 60, wherein the first flange and first tubular portion are made of a metal.

Claim 75 (new): A fitting as claimed in claim 60, wherein the first flange and first tubular portion are made of stainless steel, coated steel, aluminium, coated aluminium or GRP itself or a plastics material that bonds satisfactorily to GRP.

Claim 76 (new): A fitting as claimed in claim 60, wherein the first flange and first tubular portion and the second flange and second tubular portion or collar are formed from substantially the same material.

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Claim 77 (new): A fitting as claimed in claim 60, wherein the tubular sleeve is formed from polyethylene and the flanges are formed from stainless steel, coated steel or a polymer resistant to fuel.

Claim 78 (new): A fitting as claimed in claim 60, wherein the coupling device comprises complementary screw threaded regions on the first and second portions such that the two portions screw together, clamping the chamber wall(s) between the first and second flanges.

Claim 79 (new): A fitting as claimed in claim 76, wherein the complementary screw threaded regions are located on the outside of the first portion and on the inside of the second portion.

Claim 80 (new): A fitting as claimed in claim 60, wherein the fitting further comprises a cover adapted to cover at least one of said flange(s) and to encapsulate the at least one of said flange(s) in an adhesive.

Claim 81 (new): A fitting as claimed in claim 60 in combination with electrofusion couplings.

Claim 82 (new): A fitting as claimed in claim 81, wherein the electrofusion couplings are expanders or reducers.

Claim 83 (new): A fitting as claimed in claim 60, wherein the fitting further comprises a test point valve.

Claim 84 (new): A fitting as claimed in claim 60, wherein the pipe assembly is a said secondarily contained pipe assembly comprising a primary supply pipe contained within a secondary pipe.

Claim 85 (new): A fitting as claimed in claim 60, wherein the said pipe assembly is a primary supply pipe.

Claim 86 (new): A fitting as claimed in claim 60, incorporated into an underground pipework system.

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Claim 87 (new): A fitting as claimed in claim 60, incorporated into a garage forecourt system.

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